WORLD PATENT INFORMATION

The international journal for patent information and industrial innovation

A joint periodical of
the Commission of the European Communities
and the World Intellectual Property Organization

Volume Contents, Subject and Author Index
to Volume 4, 1982

Pergamon International Information Corporation
McLean, Virginia

Pergamon Press

Oxford · New York · Paris · Frankfurt · Sydney · Toronto

WORLD PATENT INFORMATION

The international journal for patent information and industrial innovation of the Commission of the European Communities and the World Intellectual Property Organization
Published by Pergamon International Information Corporation at Pergamon Press Ltd

Editor-in-Chief: Jacob Dekker

Editorial Office
c/o Octrooiraad, Patentlaan 2, Postbus 5820, 2280 HV Rijswijk Z.H., The Netherlands

MANAGEMENT COMMITTEE

L. Kostikov, Deputy Director General, WIPO
P. Claus, Director, WIPO
R. K. Appleyard, Director General, CEC
J. Lannoy, Special Advisor, CEC
P. J. Terragno, Vice President, Pergamon International Information Corporation

EDITORIAL ADVISORY BOARD

Patent Offices *Algeria:* Dine Hadjsadok, Director General, Algiers *Austria:* Otto Leberl, President, Vienna *Brazil:* Arthur C. Bandeira, President, Rio de Janeiro *Egypt:* Ali Omar, Director General, Cairo *European Patent Office:* Johannes B. van Benthem, President, Munich *German Democratic Republic:* Joachim Hemmerling, President, Berlin *Germany, Federal Republic of:* Erich Häusser, President, Munich *Japan:* Haruki Shimada, Director General, Tokyo *Soviet Union:* Boris A. Matkin, Deputy Chairman, Moscow *Spain:* Julio Delicado Montero-Ríos, Madrid *Sweden:* Göran Borggard, Director General, Stockholm *United Kingdom:* Ivor J. G. Davis, Comptroller General, London *United States of America:* Michael K. Kirk, Assistant Commissioner for External Affairs, Washington *Zambia:* Anderson Ray Zikonda, Registrar, Lusaka

Organizations *INPADOC: International Patent Documentation Centre,* Otto Auracher, Director General, Vienna *LES: Licensing Executives Society International,* Harry C. Donkers, International Lawyer, Paris *OAPI: Organisation africaine de la Propriété intellectuelle,* Denis Ekani, Director General, Yaoundé, Cameroun *UNIDO: United Nations Industrial Development Organization,* Gangadhar S. Gouri, Director, Vienna

Industry *CIBA-GEIGY AG:* Albrecht Hüni, Deputy Director, Basel *DERWENT PUBLICATIONS LTD:* Montague Hyams, Chairman and Manager, London *EXXON Research and Engineering Corporation:* Margaret Graham, Manager Research and Information Services, Linden, NJ, USA *GENERAL ELECTRIC CO.:* Martin Kalikov, Manager International Patents Operations, New York *INTERNATIONAL BUSINESS MACHINES CORP.:* Alvin J. Riddles, New York *SIEMENS AG:* Reinhard Ernst, Direktor und Leiter der Vertrags- und Patentabteilung, Munich

Subscription and Advertising Offices: Headington Hill Hall, Oxford OX3 0BW (Phone Oxford (0865) 64881; Telex 83177)

Annual Subscription Rates (1983)

For libraries, university departments, government laboratories, industrial and other multiple-reader institutions US $65.00 per annum (including postage and insurance). Two year rate (1983–84): US $123.50. *Specially reduced rates to individuals.* In the interests of maximizing the dissemination of the research results published in this important international journal we have established a two-tier price structure. Any individual whose institution takes out a library subscription may purchase a second or additional subscription for personal use at the much reduced rate of US $20.00. *Special rates to developing countries:* available on request.

Published Quarterly

Subscription enquiries from customers in North America should be sent to: Pergamon Press Inc., Maxwell House, Fairview Park, Elmsford, NY 10523, U.S.A., and for the remainder of the world to: Pergamon Press Ltd., Headington Hill Hall, Oxford OX3 0BW, U.K.

Microform Subscriptions

Current subscriptions are available on microfiche simultaneously with the paper edition and on microfilm on completion of the annual index at the end of the subscription year.

Copyright © 1983
Commission of the European Communities (CEC), Luxembourg and World Intellectual Property Organization (WIPO), Geneva, Switzerland

It is a condition of publication that manuscripts submitted to this journal have not been published and will not be simultaneously submitted or published elsewhere. By submitting a manuscript, the authors agree that the copyright for their article is transferred to the publisher if and when the article is accepted for publication. However, assignment of copyright is not required from authors who work for organizations which do not permit such assignment. The copyright covers the exclusive rights to reproduce and distribute the article, including reprints, photographic reproductions, microform or any other reproductions of similar nature and translations. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, electrostatic, magnetic tape, mechanical, photocopying, recording or otherwise, without permission in writing from the copyright holder.

U.S. COPYRIGHT LAW APPLICABLE TO USERS IN THE U.S.A.

The Article Fee Code on the first page of an article in this journal indicates the copyright owner's consent that, in the U.S.A., copies may be made for personal or internal use provided the stated fee for copying beyond that permitted by Section 107 or 108 of the United States Copyright Law, is paid. The appropriate remittance should be forwarded with a copy of the first page of the article to the Copyright Clearance Center Inc., 21 Congress Street, Salem, MA 01970. If a code does not appear, copies of the article may be made without charge, provided permission is obtained from the publisher. The copyright owner's consent does not extend to copying for general distribution, for promotion, for creating new works or for resale. Specific written permission must be obtained from the publisher for such copying. In case of doubt please contact your nearest Pergamon Office.

Publishing Offices: Pergamon International Information Corporation, 1340 Old Chain Bridge Road, McLean, VA 22101
(Phone 703 442-0900)
Pergamon Press Ltd., Headington Hill Hall, Oxford OX3 0BW
Pergamon Press Inc., Maxwell House, Fairview Park, Elmsford, NY 10523

VOL. 4 1982

CONTENTS

VOLUME 4, NUMBER 1

M. Jonason	3	Patent statistics as related to the industrial development trend in Sweden in the period 1925–1936 – I
F. M. Scherer	12	The Office of Technology Assessment and Forecast industry concordance as a means of identifying industry technology origins
T. S. Eisenschitz	18	Accuracy of information transfer through patent classifications
R. Hack and L. Matějka	23	Prognosis of the development of artificial kidneys based upon patent literature
	33	Communications
	35	Meetings and Conferences
	37	Literature Review
	39	Letter to the Editor
	40	Abstracts

VOLUME 4, NUMBER 2

Editorial	47	
M. Jonason	48	Patent statistics as related to the industrial development trend in Sweden in the period 1925–1936 – II
A. P. de Jonge	56	Statistical evaluation of patent applications on inventions in a field of coherent subjects as a base for R & D policy
M. D. Dixon and C. Oppenheim	60	Recent developments in Derwent Publications' patent information services: a review with some predictions for the future
M. Fox, M. L. Caglar and A. B. Robertson	66	Finding outlets for inventiveness
G. A. Negulyaev and G. A. Tarasova	70	The integrated use of information retrieval languages in patent search
D. Spentzas	75	The Documentation and Information Unit of the Greek Productivity Centre (GPC)
	81	Communications

	82	Meetings and Conferences
	85	Literature Review
	87	Letter to the Editor
	89	Abstracts

VOLUME 4, NUMBER 3

Editorial	95	
J. F. Mézières	97	Development co-operation training seminar at The Hague – 'Technical Information as an aid to industrial development'
P. Révy von Belvárd	100	Patent attorneys on new ways?
Shen Jialian	102	How about the 'ugly duckling' in China? Some investigations on the use of patent literature in this country
P. Claus and P. A. Higham	105	Study of citations given in search reports of international patent applications published under the Patent Cooperation Treaty
H. Kronz and H. Grevink	110	Trends in the inventive activity of private applicants for patents in Germany, France and the United Kingdom
J. Stephenson	121	Training to use patents
T. S. Eisenschitz and C. E. Thompson	126	Descriptions of micro-organisms in patents and journal articles
	131	Communications
	133	Meetings and Conferences
	136	Literature Review
	139	Abstracts

VOLUME 4, NUMBER 4

Editorial	147	
P. Claus	149	Patent search and information in the nineties
J. Delorme	155	Dissemination of patent information
G. R. Coaracy	159	The role of patent information in relation to transfer of technology

VOL. 4 1982

J. Stephenson	164	The use of patent information in industry
S. Hahnemann	172	Aperture card or microfiche – The choice in collections of patent specifications
J. Hemmerling	177	Experience of the Office for Inventions and Patents of the German Democratic Republic in the use of microfiche in patent information and documentation
J. Dekker	183	Survey of the Annual Technical Reports 1981 of the Patent Offices
	186	Patent information activities of industrial property offices
	188	Communications
	189	Meetings and Conferences
	191	Literature Review
	193	Book Review
	194	Abstracts

AUTHOR INDEX

Caglar, M.L. 4(2), 66
Claus, P. 4(3), 105
4(4), 149
Coaracy, G.R. 4(4), 159

de Jonge, A.P. 4(2), 56
Dekker, J. 4(4), 183
Delorme, J. 4(4), 155
Dixon, M.D. 4(2), 60

Eisenschitz, T.S. 4(1), 18
4(3), 126

Fox, M. 4(2), 66

Grevink, H. 4(3), 110

Hack, R. 4(1), 23
Hahnemann, S. 4(4), 172
Hemmerling, J. 4(4), 177
Higham, P.A. 4(3), 105

Jialian, S. 4(3), 102
Jonason, M. 4(1), 3
4(2), 48

Kronz, H. 4(3), 110

Matějka, L. 4(1), 23
Mézières, J.F. 4(3), 97

Negulyaev, G.A. 4(2), 70

Oppenheim, C. 4(2), 60

Robertson, A.B. 4(2), 66

Scherer, F.M. 4(1), 12
Spentzas, D. 4(2), 75
Stephenson, J. 4(3), 121
4(4), 164

Tarasova, G.A. 4(2), 70
Thompson, C.E. 4(3), 126

von Belvárd, P.R. 4(3), 100

SUBJECT INDEX TO VOLUME 4

Abstracts – patent searching 4(4)82, 149–154
Accuracy 4(1)82, 18–22
Antibiotics 4(3)82, 126–130
Aperture cards 4(4)82, 153–154; 4(4)82, 172–176
Artificial kidneys 4(1)82, 23–32
ASLIB 4(2)82, 76
Assessment – of seminar 4(3)82, 99

Bibliographic data – patent searching 4(4)82, 149–154
Brazil 4(4)82, 159–163

CAPRI project 4(2)82, 72; 4(4)82, 149–154
Catchword index 4(2)82, 70–74
CEC – Commission of the European Communities 4(3)82, 97–99; 4(3)82, 121–125
CEDIN – Technological Documentation and Information Center (Brazil) 4(4)82, 161–163
Chemical coding – new Derwent 4(2)82, 64
China 4(3)82, 102–104
Citations study 4(3)82, 105–109
CNPq – National Council for Scientific and Technological Development (Brazil) 4(4)82, 161
Commercialization – of inventions 4(2)82, 66–69
Computer assisted indexing 4(2)82, 71–72
Computer assisted searching 4(4)82, 149–154
Concordance 4(1)82, 12–17; 4(2)82, 70–74
Court decisions 4(3)82, 100–101
Cross file searching 4(2)82, 64
Cut-off year PCT minimum documentation 4(3)82, 108–109; 4(4)82, 149

Depression – economic 4(1)82, 3–7
Derwent Publications – Patent Information Services 4(2)82, 60–65; 4(4)82, 155–158
Derwent SDC search service 4(2)82, 64
Developing countries 4(4)82, 159–163
Development cooperation 4(3)82, 97–99
Digital document storage 4(4)82, 172–176
Dissemination – of patent information 4(4)82, 155–158
DIU – Documentation and Information Unit (Greece) 4(2)82, 75–80
Documentation 4(3)82, 100–101

Economic depression 4(1)82, 3–7
EEC, entry into 4(2)82, 75
EPC, European Patent Convention 4(4)82, 149–154
EPI, Electrical Patents Index 4(2)82, 60–62
EPO, European Patent Office/Organization 4(3)82, 97–99
– databases 4(4)82, 155–158
Exploitation of inventions 4(2)82, 66–69
Exploitation of patent information 4(4)82, 164–171

FGEI State Examination Collection (USSR) 4(2)82, 72
Fulltext patent searching 4(4)82, 149–154

GASNTI (State system of Scientific and Technical Information) headingslist (USSR) 4(2)82, 70–74
GDR, German Democratic Republic 4(4)82, 177–182
GPC – Greek Productivity Centre 4(2)82, 75–80
Graphical representation 4(1)82, 4–6; 4(1)82, 25–30; 4(2)82, 56–59; 4(3)82, 106–109; 4(3)82, 111
Graphics, mass storage of 4(2)82, 64–65
GRC – Government Research Council (UK) 4(2)82, 66–69
Greece 4(2)82, 75–80

Host computer 4(4)82, 155–158

IBICT – Brazilian Institute on Information in Science and Technology 4(4)82, 161
ICIREPAT Standards on microforms 4(4)82, 172–176; 4(4)82, 177–182
Industrial activity, foreign 4(1)82, 48–52
Industrial development 4(1)82, 3–11; 4(1)82, 48–55
Industrial development, aid to 4(3)82, 97–99
Industry, structural changes 4(1)82, 7–11
Industry, technology origins 4(1)82, 12–17
Information retrieval languages, use of multiple 4(2)82, 70–74
Information transfer 4(1)82, 18–22
Innovation 4(2)82, 66–69
– at patent attorneys 4(3)82, 100–101
– in patent offices 4(3)82, 95–96
INPADOC 4(2)82, 72; 4(2)82, 77; 4(4)82, 155–158; 4(4)82, 172–176
INPI – National Institute of Industrial Property, (Brazil) 4(4)82, 159–163
Interindustrial survey 4(4)82, 164–171
International cooperation 4(4)82, 154
International search reports 4(3)82, 105–109
Inventive activity 4(3)82, 110–120
Inventiveness 4(2)82, 66–69
ISA – International Searching Authority 4(3)82, 105–109
ISTIC – Institute of Scientific and Technical Information (China) 4(3)82, 102–104

Journal literature – overlap with patent literature 4(3)82, 126–130

Keyword system 4(1)82, 23–32
KRISP project – Economic crisis and crisis policy in the years between the wars 4(1)82, 3

Licensing 4(3)82, 100–101

Microfiche 4(4)82, 154; 4(4)82, 172–176; 4(4)82, 177–182
Microforms 4(4)82, 149–154
Micrography Working Party (APD–DGD) 4(4)82, 172–176
Micro-organisms 4(3)82, 126–130
Mini computers, inhouse 4(2)82, 65

Network – National information – for industry (Greece) 4(2)82, 76–77
Network of Scientific and Technological Information (Greece) 4(2)82, 77
Newcastle upon Tyne 4(4)82, 164–171
Nineties, patent search and information in the 4(4)82, 149–154
NPO 'POISK' Research and Production Amalgamation (USSR) 4(2)82, 70–74
NRDC – National Research Development Corporation (UK) 4(2)82, 66–69

On line data bases – Derwent 4(2)82, 63–64
– EPO 4(4)82, 155–158
– instructional computer program 4(2)82, 121–125
On line searching – 4(4)82, 149–154
Optical disc 4(2)82, 64–65; 4(4)82, 154
OTAF – Office of Technology Assessment and Forecast – (US) 4(1)82, 12–17

PAM – patent abstracts on microfiche 4(2)82, 62–63
Paperless office 4(4)82, 153
Participants of seminar 4(3)82, 99
Patent abstracts, searching 4(4)82, 149–154
Patent applications, from various sources 4(2)82, 60–65
Patent attorneys 4(3)82, 100–101
Patent classifications – comparison of 4(1)82, 18–22; 4(1)82, 159–163
– hybrid 4(4)82, 153
– international 4(1)82, 18–22; 4(2)82, 70–74
– improving 4(4)82, 152–153
Patent classifications – national JA 4(2)82, 70–74
UK 4(1)82, 18–22; 4(2)82, 70–74
US 4(1)82, 12–17; 4(2)82, 70–74

VOL. 4 1982

Patent information, dissemination of 4(4)82, 155–158; 4(4)82, 164–171
in the nineties 4(4)82, 149–154
officer 4(4)82, 164–171
promoting use of 4(4)82, 159–163; 4(4)82, 164–171
transfer of technology 4(4)82, 155–158
usefulness of 4(4)82, 164–171
use in industry 4(4)82, 164–171
Patent literature 4(1)82, 18–22
overlap with journal literature 4(3)82, 126–130
use of 4(3)82, 102–104; 4(3)82, 121–125; 4(4)82, 164–171
users profile 4(3)82, 102–104
Patent Offices, innovation in 4(3)82, 95–96
Patent search 4(2)82, 70–74
in the nineties 4(4)82, 149–154
quality of 4(4)82, 147–148
Patent statistics 4(1)82, 3–11; 4(1)82, 48–55
PCPI – Permanent Committee for Patent Information 4(4)82, 173
PCT – Patent Cooperation Treaty 4(3)82, 105–109; 4(4)82, 149–154
PCT, minimum documentation 4(4)82, 149–154
PCT, cut off year 4(3)82, 108–109; 4(4)82, 149
Penetration, commercial – foreign technological 4(2)82, 48–52
PENTAKTA microfiche apparatus 4(4)82, 177–182
Predictions for future 4(2)82, 60–65
Private applications 4(3)82, 110–120
Prognosis of development 4(1)82, 23–32

Quality of patent searches 4(4)82, 147–148

Reclassification 4(2)82, 71–72
Reindexing, computer assisted 4(2)82, 71–72
Renal replacement devices 4(1)82, 23–32
Research and development, expenditure 4(1)82, 12
policy 4(2)82, 56–59
statistics 4(1)82, 12–17
Research, exploitation of 4(2)82, 66–69
public funded 4(2)82, 66–69
systematic 4(2)82, 52–55
Research Publications 4(4)82, 172–176
Roll film 4(4)82, 172–176

SDC Derwent – Search Service 4(2)82, 64
Search reports, international 4(3)82, 105–109
SIC Standard industrial classification 4(1)82, 12
Standardisation 4(4)82, 149–154
Statistical evaluation 4(2)82, 56–59
Statistics, patent 4(1)82, 3–11; 4(1)82, 48–55
Streptomyces bacteria 4(3)82, 126–130
Surrogate document patent searching 4(4)82, 149–154
Surveillance service 4(3)82, 100–101
Sweden 4(1)82, 3–11; 4(1)82, 48–55

Tape/slide presentation 4(3)82, 121–125
Technical information 4(3)82, 97–99
Text processing 4(4)82, 149–154
TIC – Technical Information Centre (Greece) 4(2)82, 77
Training packages 4(3)82, 121–125
Training seminar 4(3)82, 97–99
Training, to use patents 4(3)82, 121–125
Transfer of technology 4(4)82, 159–163
Trend 4(1)82, 3–11; 4(1)82, 23–32; 4(1)82, 48–55; 4(3)82, 110–120

UDC 4(2)82, 70–74
UGC University Grants Committee (UK) 4(2)82, 66–69
Ugly Duckling 4(3)82, 102–104
Ultra fiche (ICOT) 4(4)82, 172–176
UNIDO 4(2)82, 77
United Kingdom 4(2)82, 66–69
University inventions 4(2)82, 66–69
Users profile 4(3)82, 102–104
USPTO data base 4(2)82, 63–64
USSR 4(2)82, 70–74
State Committee for Inventions and Discoveries 4(2)82, 70–74

Video disc 4(2)82, 64–65; 4(2)82, 70–74; 4(4)82, 172–176
Video Patsearch 4(2)82, 64–65
Video tapes 4(3)82, 121–125
VINITI – All Union Research Institute for scientific and technical information (USSR) 4(2)82, 70–74
VPTB – All Union Patent Technical Library (USSR) 4(2)82, 72–73

WIPO 4(3)82, 97–99; 4(4)82, 162; 4(4)82, 172–176; 4(4)82, 177–182
WPI, WPIL data base 4(2)82, 60–65

WORLD PATENT INFORMATION

Aims and Scope

The aim of World Patent Information is to provide a worldwide forum for the exchange of information between people working professionally in the patent information and documentation field and to promote the use of the patent literature for other than legal purposes.

Regular features include:
- New regulations pertinent to patent information and documentation;
- Advance notices and short reports on meetings and conferences on patent information;
- Bibliographies and book reviews.

Notes for Contributors

General

The Editor-in-Chief will be pleased to receive contributions from all parts of the world and manuscripts for publication should be submitted to the Editor-in-Chief. Contributions may also be communicated via members of the Editorial Advisory Board.

Only papers not previously published will be accepted, and authors must agree not to publish elsewhere a paper submitted to and accepted by the Journal.

The language of the Journal is primarily English. Manuscripts submitted in other languages may be considered at the discretion of the Editor-in-Chief.

Reprints of each paper can be purchased on a reprint order form which will accompany first proofs.

Manuscripts Requirements

Manuscripts should be typed double spaced on one side of the page only with wide margins. While no maximum length of contributions is prescribed, authors are encouraged to write concisely.

The title should be brief. The author's name should be typed on the line below the title. The affilation and address should follow on the next line. In the case of co-authors, respective addresses should be clearly indicated, as well as which author is to receive correspondence and proofs for correction. The body of the manuscript should be preceded by an abstract.

Illustrations should accompany the script and should be included in manuscript pages. Line drawings should include all relevant details and should be drawn in black ink on plain white drawing paper or tracing cloth. Good photoprints are acceptable, but blueprints or dye-line prints cannot be used. Drawings, etc. should be about twice the final size required and lettering must be clear and "open", and sufficiently large to permit the necessary reduction of size for publication. The following standard symbols should be used on line drawings since they are easily available to the printers: ○, •, +, ×, ■, □, △, ▲,◇,◆, ∇, ▼. Photographs should be sent as glossy prints. If words or numbers are to appear on a photograph two prints should be sent, the lettering being clearly indicated on one print only.

Reference to published literature should be quoted in the text in square brackets and grouped together at the end of the paper in numerical order. Double-spacing must be used throughout.

Journal references should be arranged thus:

(1) R. M. Duchesne, Patent library service in the United Kingdom. *Journal of Librarianship* **2**, 196-204; 1970.

(2) O. J. Firestone, *Economic Implications of Patents.* University of Ottawa Press, Ottawa, Canada, 1971.

Abbreviations of journal titles should follow those given in *World List of Scientific Periodicals* (4th Edn). It is particularly requested that author's initials, and appropriate volume and page numbers, should be given in every case.

Footnotes, as distinct from literature references should be indicated by the following symbols: *, †, ‡, §, ¶, ||, commencing anew on each page, they should *not* be included in the numbered reference system.

Because of the international character of the Journal, no rigid rules concerning notation or abbreviation need be observed by the authors, but each paper should be self-consistent as to symbols and units, which should all be properly defined.

The original manuscript and diagrams may be discarded after publication unless the Publisher is requested to return original material to the author.

VOL. 4 1982